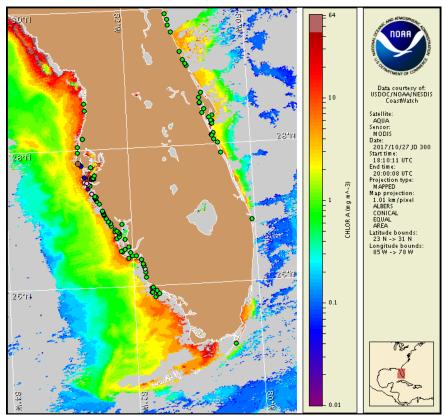


## Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Southwest Florida Monday, 30 October 2017 NOAA National Ocean Service NOAA Satellite and Information Service NOAA National Weather Service

Last bulletin: Monday, October 23, 2017



Satellite chlorophyll image with possible *K. brevis* HAB areas shown by red polygon(s), when applicable. Points represent cell concentration sampling data from October 20 to 26: red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). Cell count data are provided by Florida Fish and Wildlife Conservation Commission (FWC) Fish and Wildlife Research Institute. For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

https://tidesandcurrents.noaa.gov/hab/hab\_publication/GOMX\_HAB\_Bulletin\_Guide.pdf

Detailed sample information can be obtained through FWC Fish and Wildlife Research Institute at: http://myfwc.com/redtidestatus

To see previous bulletins and forecasts for other Harmful Algal Bloom Bulletin regions, visit at: https://tidesandcurrents.noaa.gov/hab/gomx.html

# **Conditions Report**

Karenia brevis (commonly known as Florida red tide) ranges from not present to low concentrations along the coast of southwest Florida, and is not present in the Florida Keys. No respiratory irritation is expected alongshore southwest Florida Monday, October 30 through Monday, November 6. For recent, local observations and data, check Mote Marine Laboratory Daily Beach Conditions (http://visitbeaches.org/) and the Florida Fish and Wildlife Conservation Commission Red Tide Status (http://myfwc.com/redtidestatus).

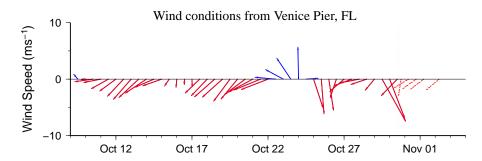
### **Analysis**

Recent samples collected alongshore southwest Florida from Pinellas to Monroe counties, including the Florida Keys, indicate *Karenia brevis* ranges from 'not present' to 'low a', with the highest concentrations present alongshore southern Pinellas and in lower Tampa Bay (FWRI, MML, SCHD, CCPCD; 10/20-10/26). Detailed sample information and a summary of impacts can be obtained through FWC Fish and Wildlife Research Institute at: <a href="http://myfwc.com/redtidestatus">http://myfwc.com/redtidestatus</a>.

Recent ensemble imagery (MODIS Aqua, 10/27; shown left) is partially obscured by clouds along the southwest Florida coast from Pinellas to Monroe counties, limiting analysis. Patches of anomalously high chlorophyll with some of the optical characteristics of *K. brevis* are visible from offshore Pinellas to southern Lee counties.

Wind conditions favorable for upwelling were observed last Thursday through the weekend and are forecasted to continue today through Wednesday (10/26-11/1), increasing the potential for *K. brevis* bloom formation at the coast.

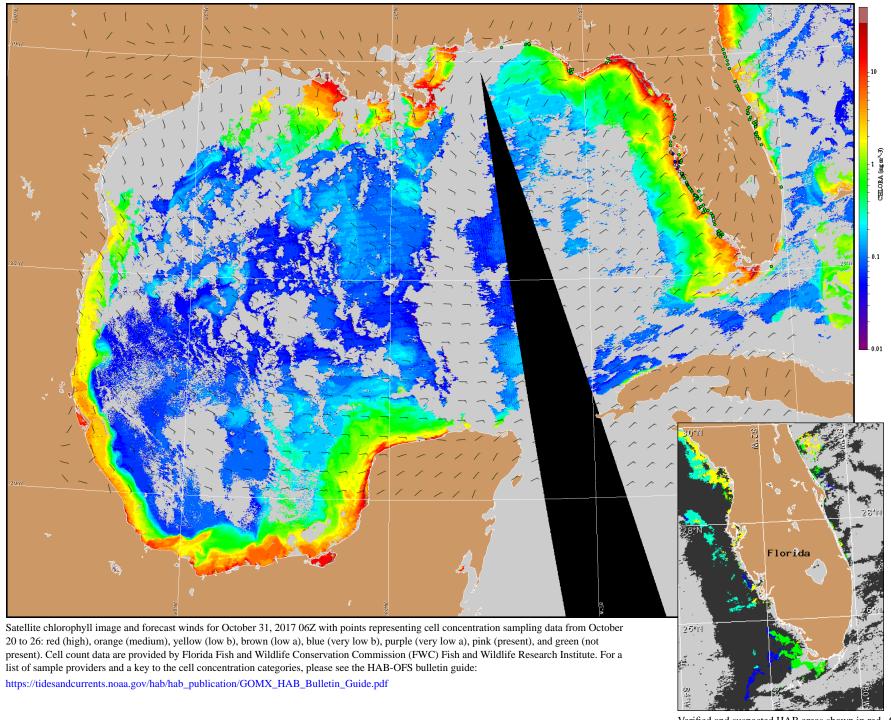
#### Kavanaugh, Davis



Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts. Wind observation and forecast data provided by NOAA's National Weather Service (NWS).

# Wind Analysis

**Englewood to Tarpon Springs (Venice)**: Northeast to north winds (5-15kn, 3-8m/s) today through Tuesday. East to northeast winds (10kn, 5m/s) Tuesday night through Friday.



Verified and suspected HAB areas shown in red. Other areas with *K. brevis* optical characteristics shown in yellow (see p. 1 analysis for interpretation).